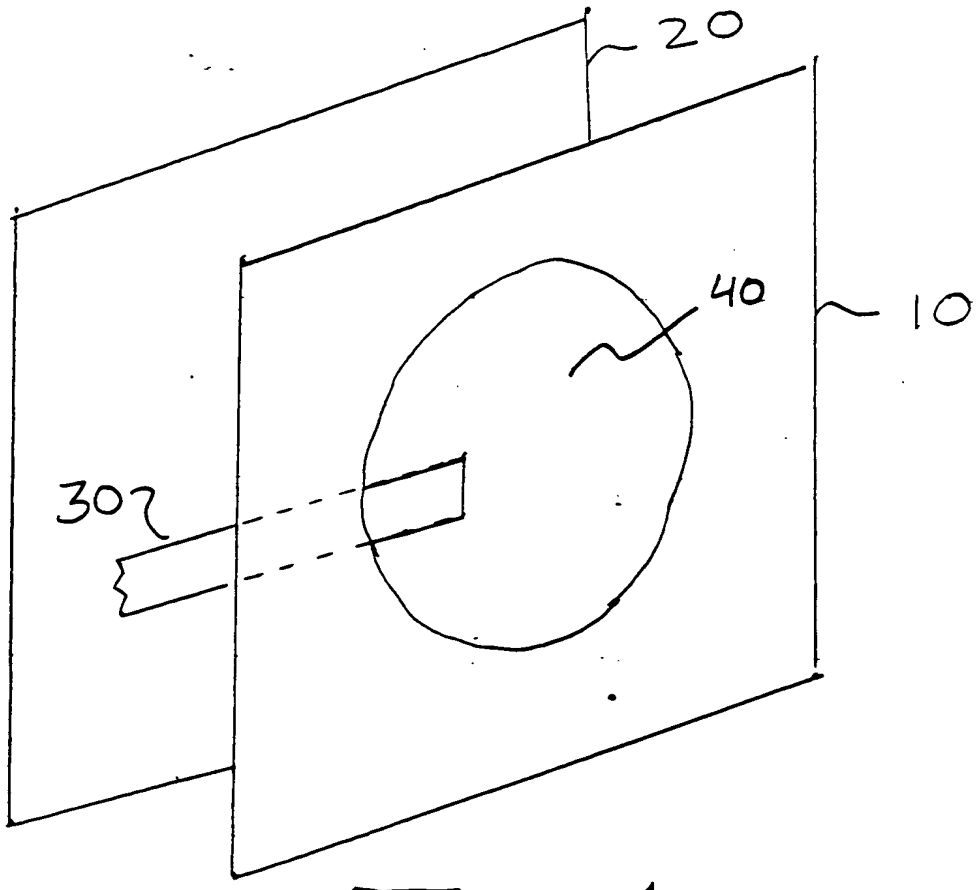

FIG. 1

(PRIOR ART)

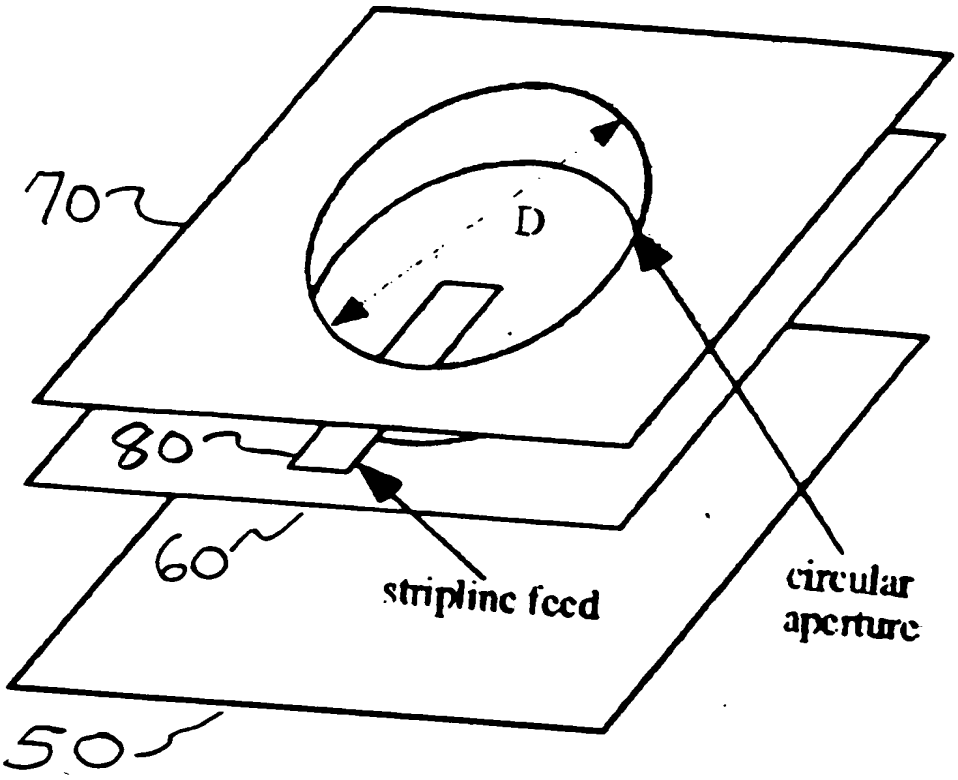

FIG. 2

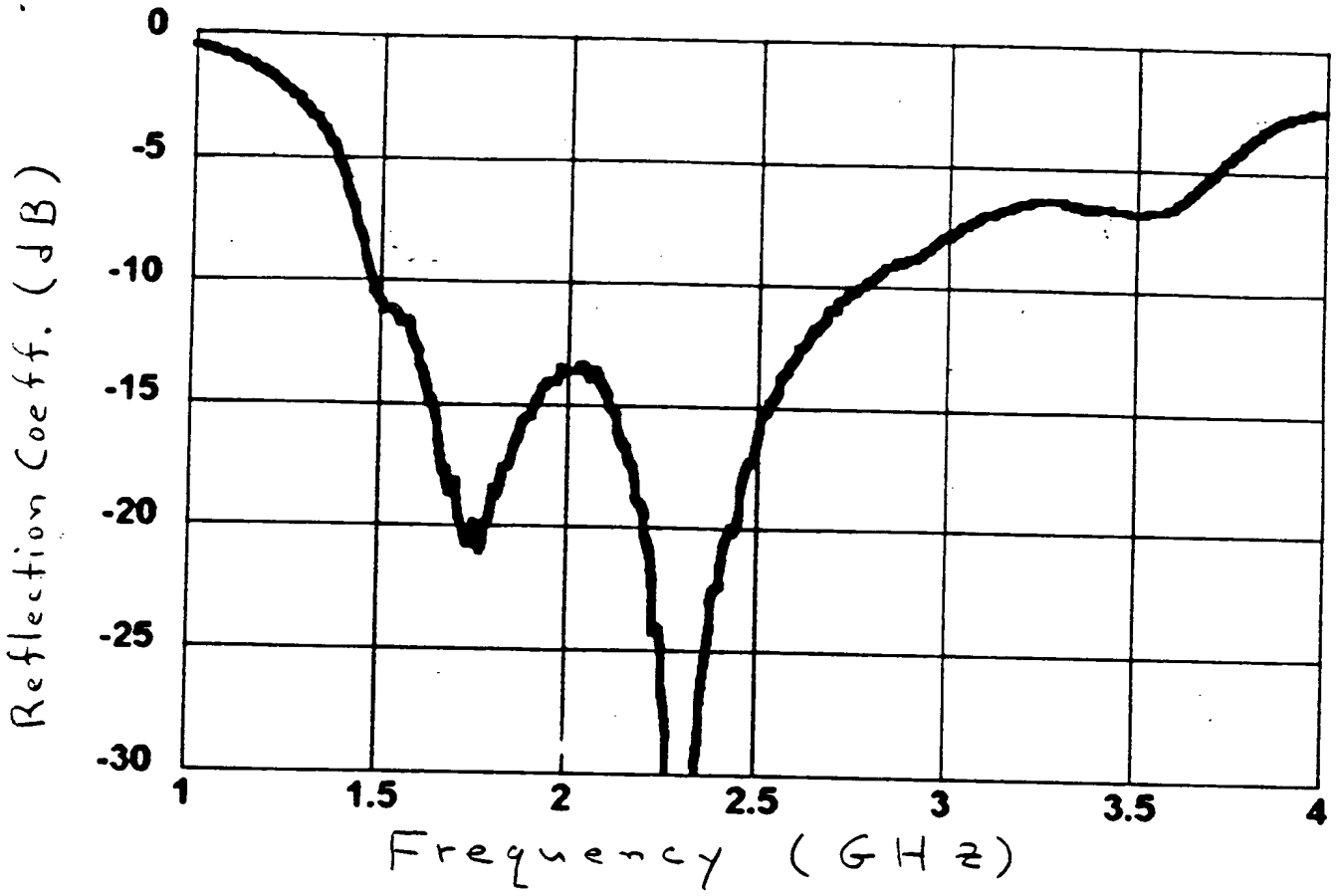
Reflection Coeff. (dB)
0
-5
-10
-15
-20
-25
-30
1
1.5
2
2.5
3
3.5
4
Frequency (GHz)

FIG. 3

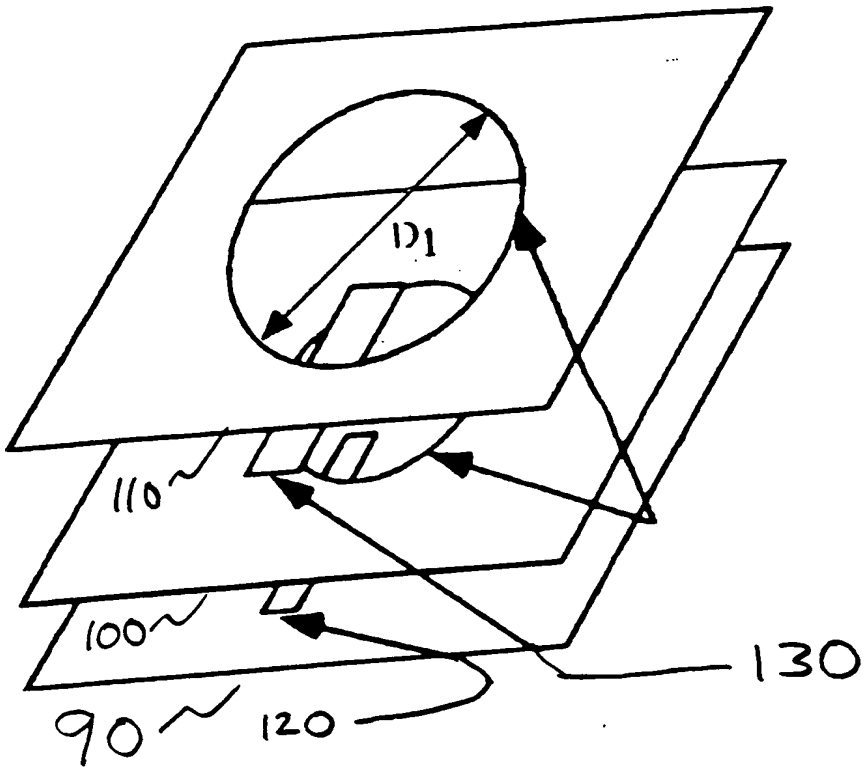

FIG. 4

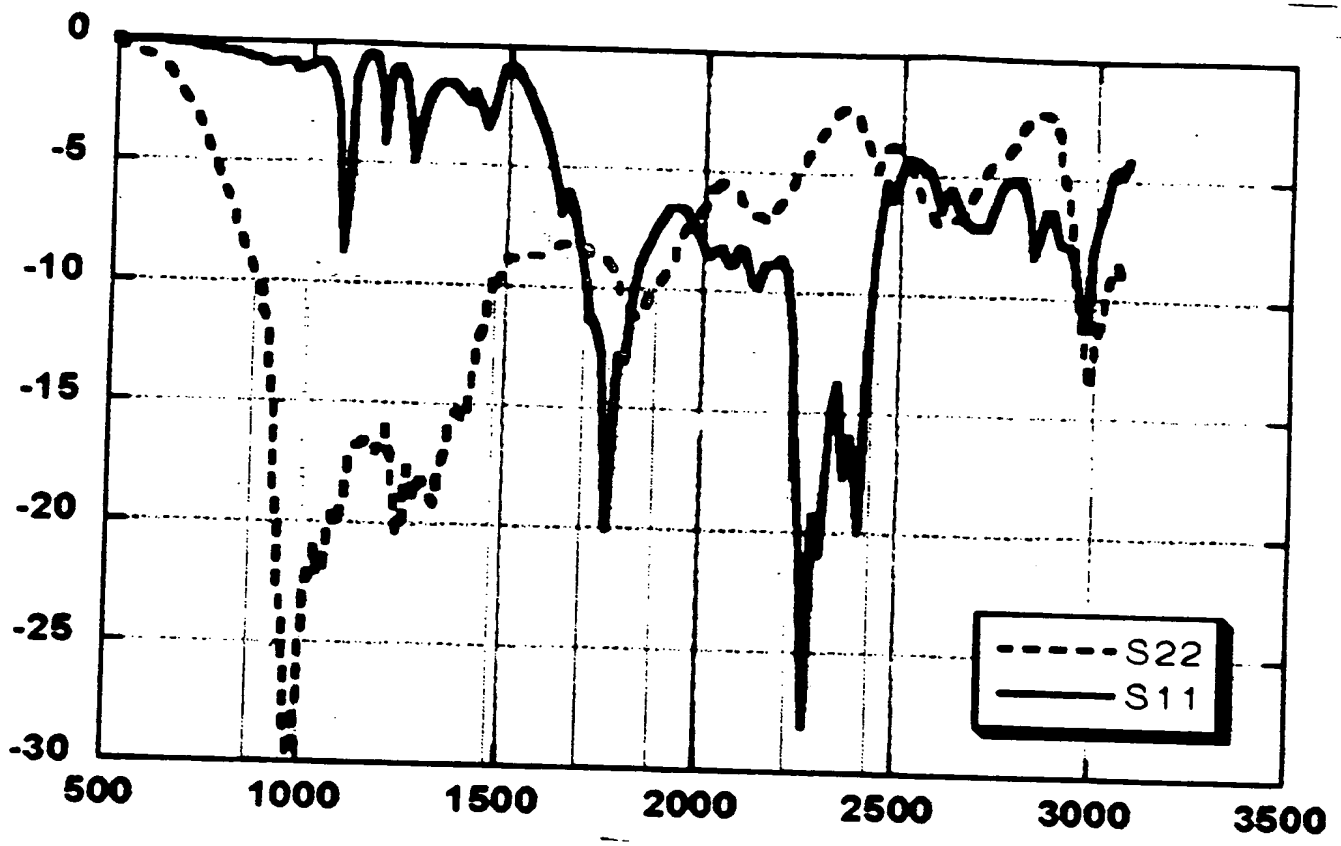
0
-5
-10
-15
-20
-25
-30
500
1000
1500
2000
2500
3000
3500
S22
S11
Reflection Coeff. (dB)
FREQUENCY (MHz)

FIG. 5

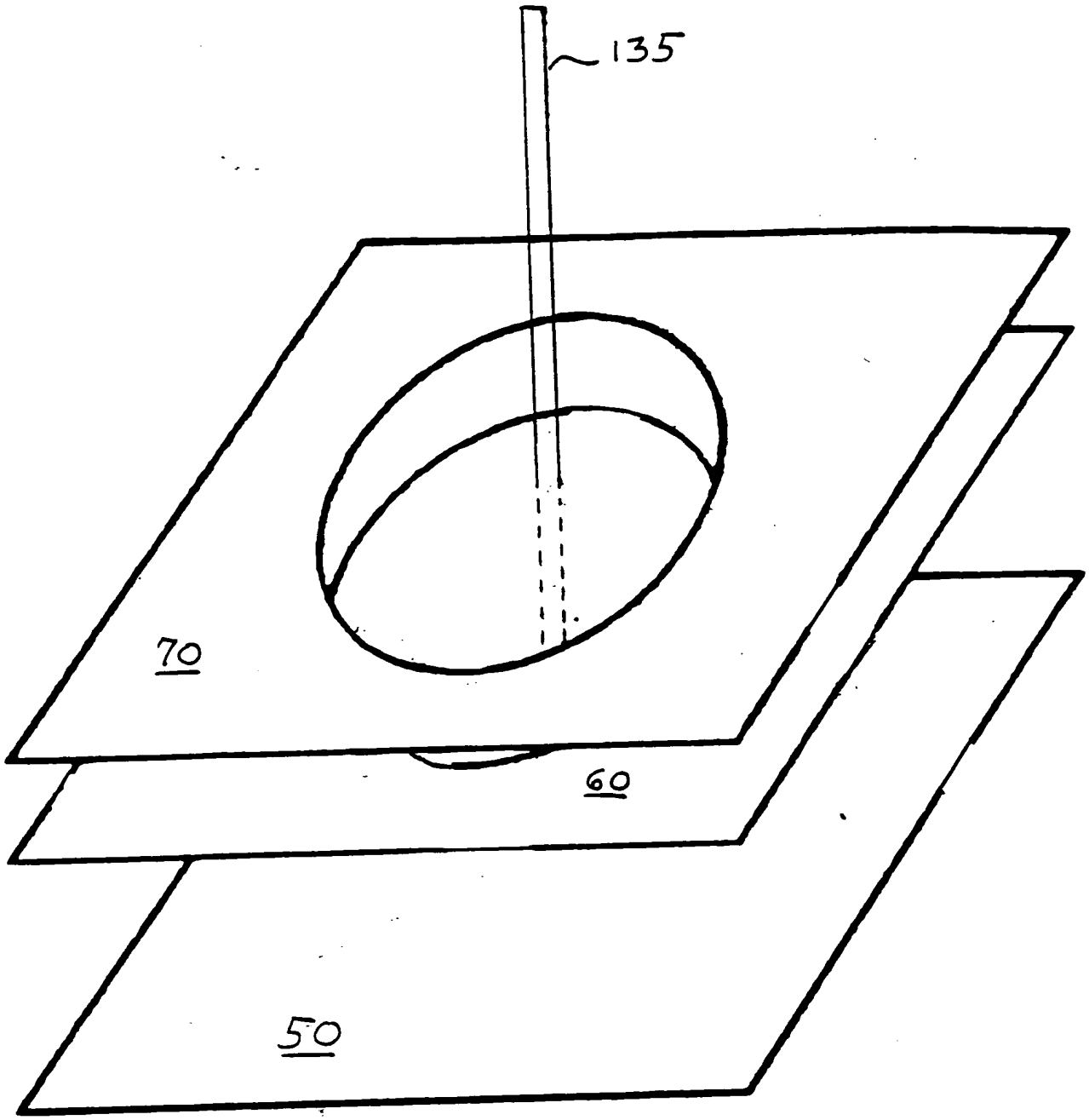

FIG. 6

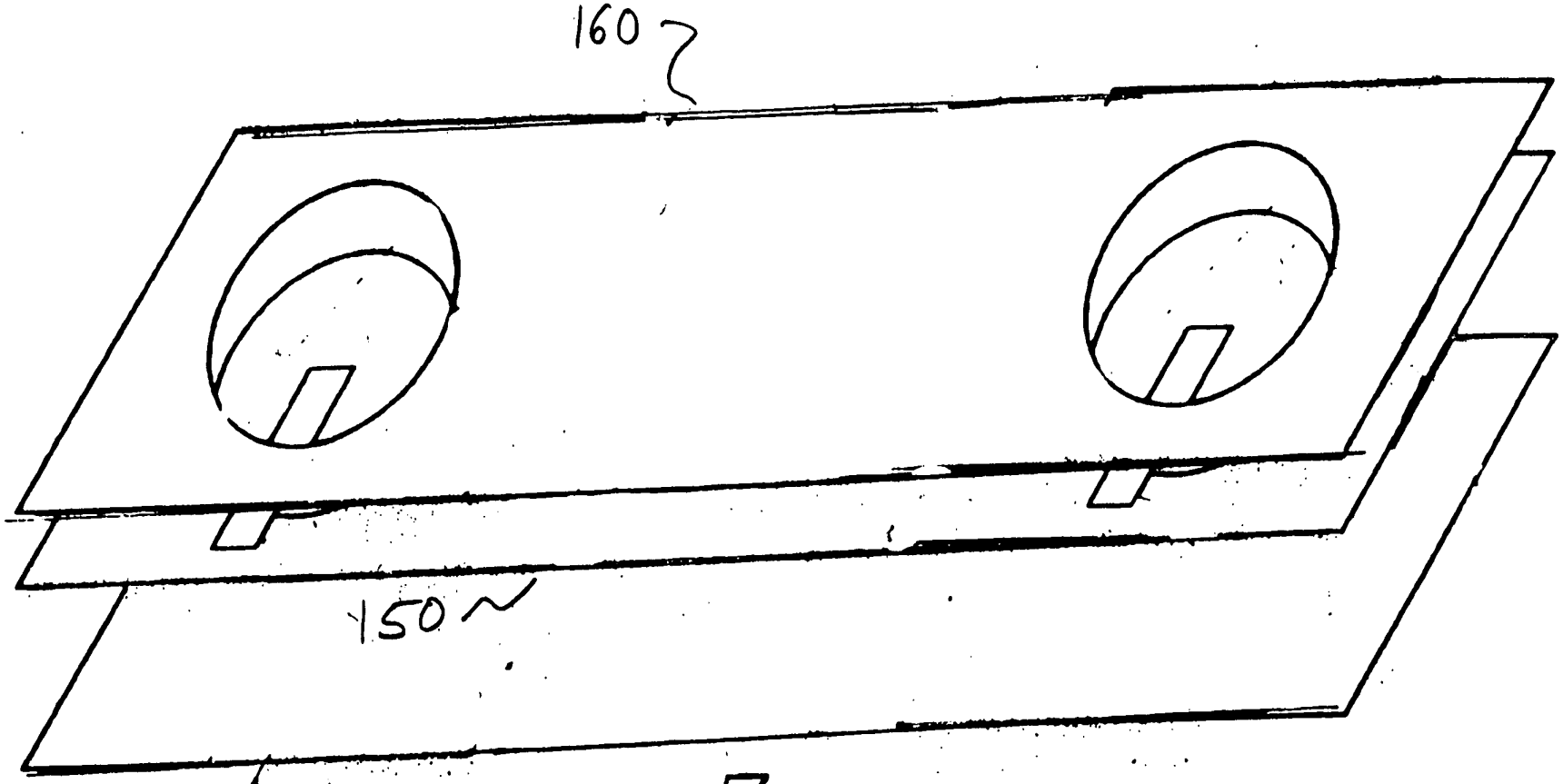

FIG. 7

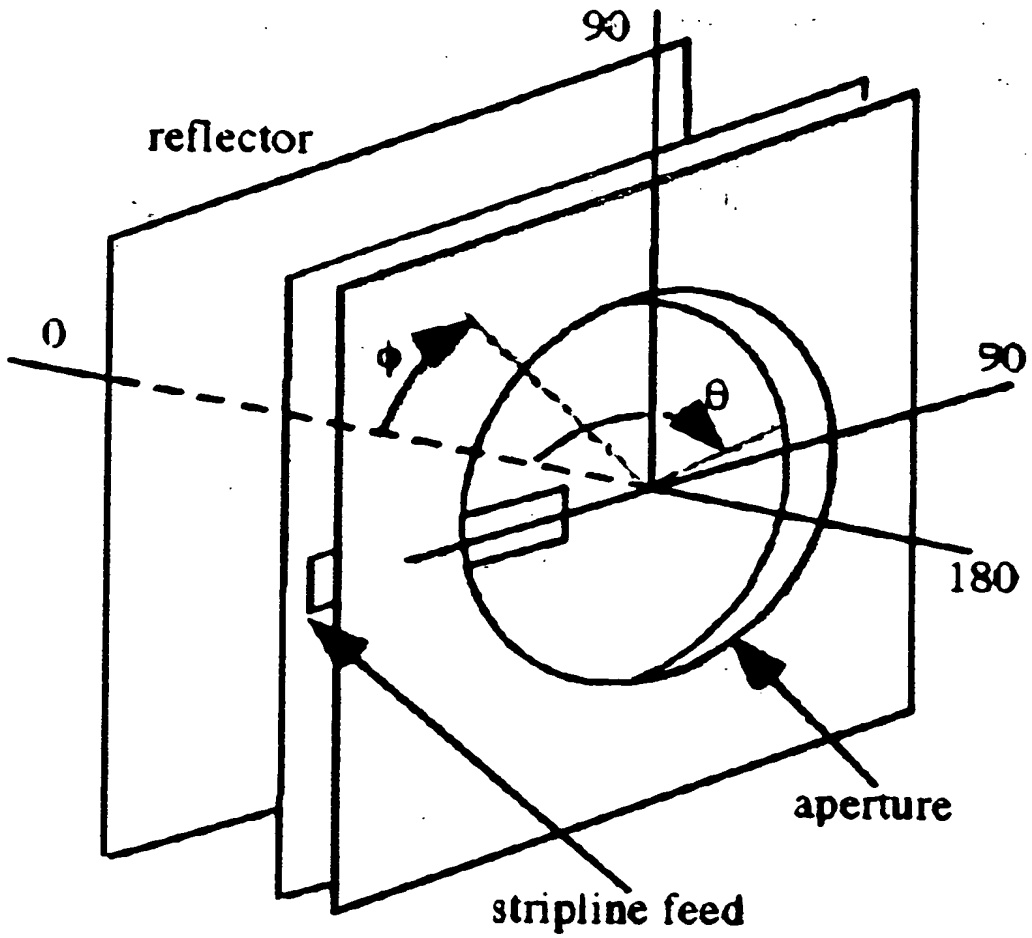

FIG. 8

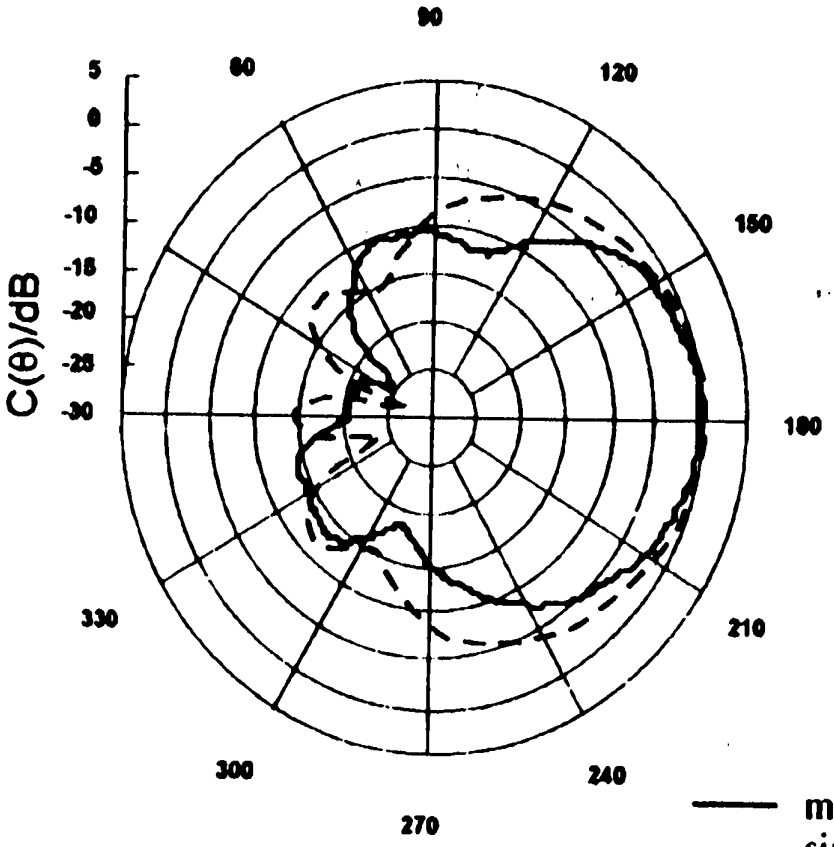

FIG. 9

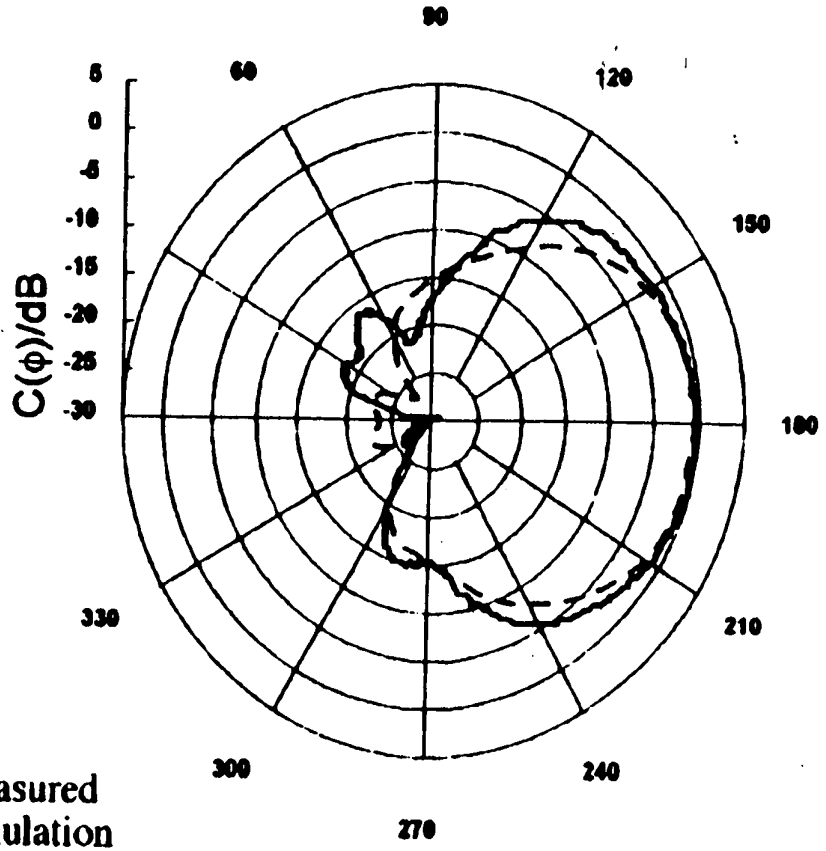

FIG. 10

measured
simulation

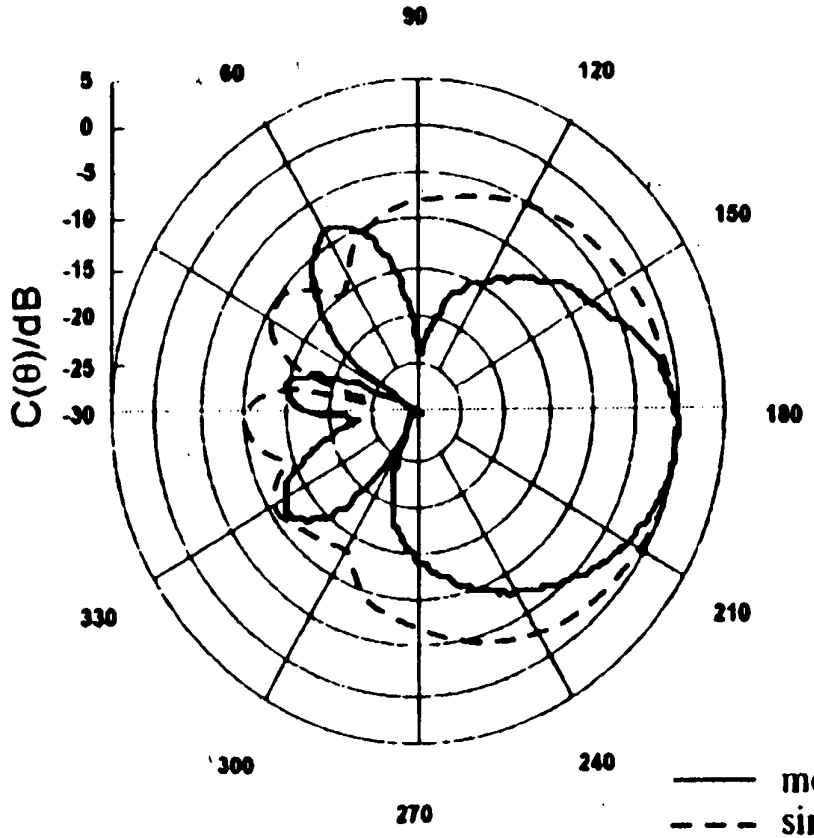
90
60
120
150
180
210
240
270
300
330
5
0
-5
-10
-15
-20
-25
-30
C(θ)/dB
measured
simulation

FIG. 11

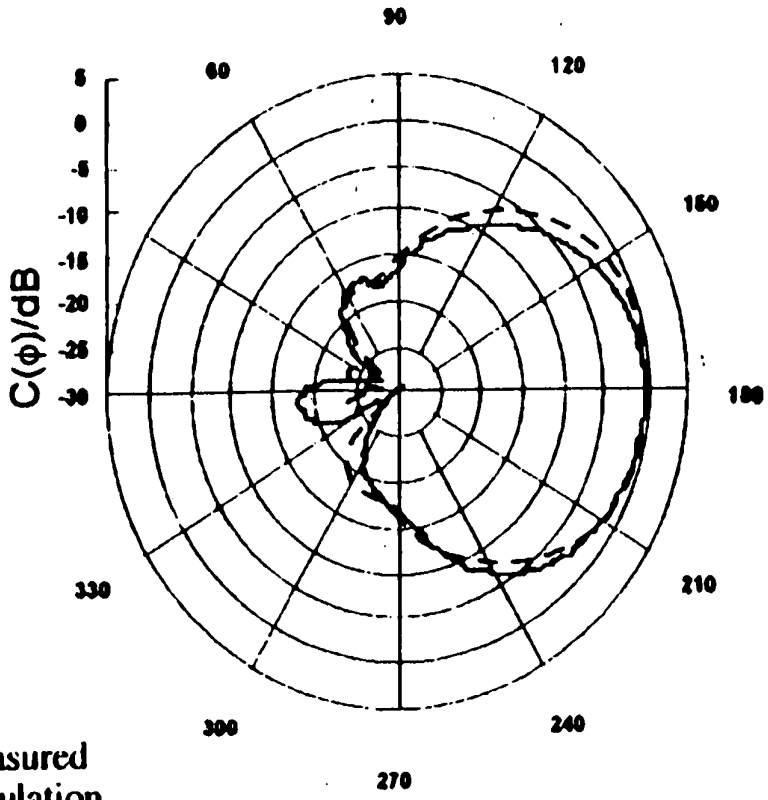
90
60
120
150
180
210
240
270
300
330
C(φ)/dB

FIG. 12

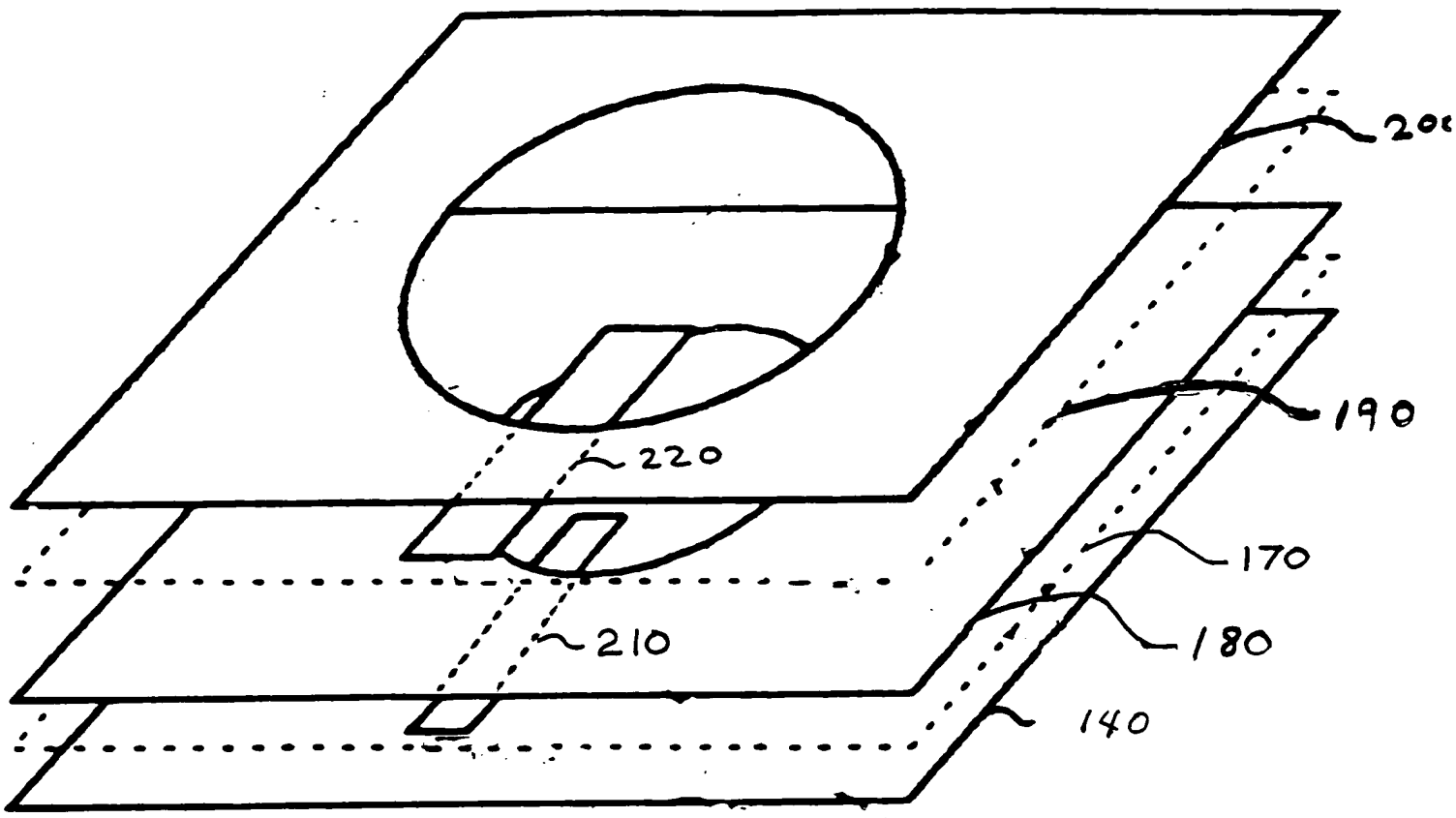

FIG. 13

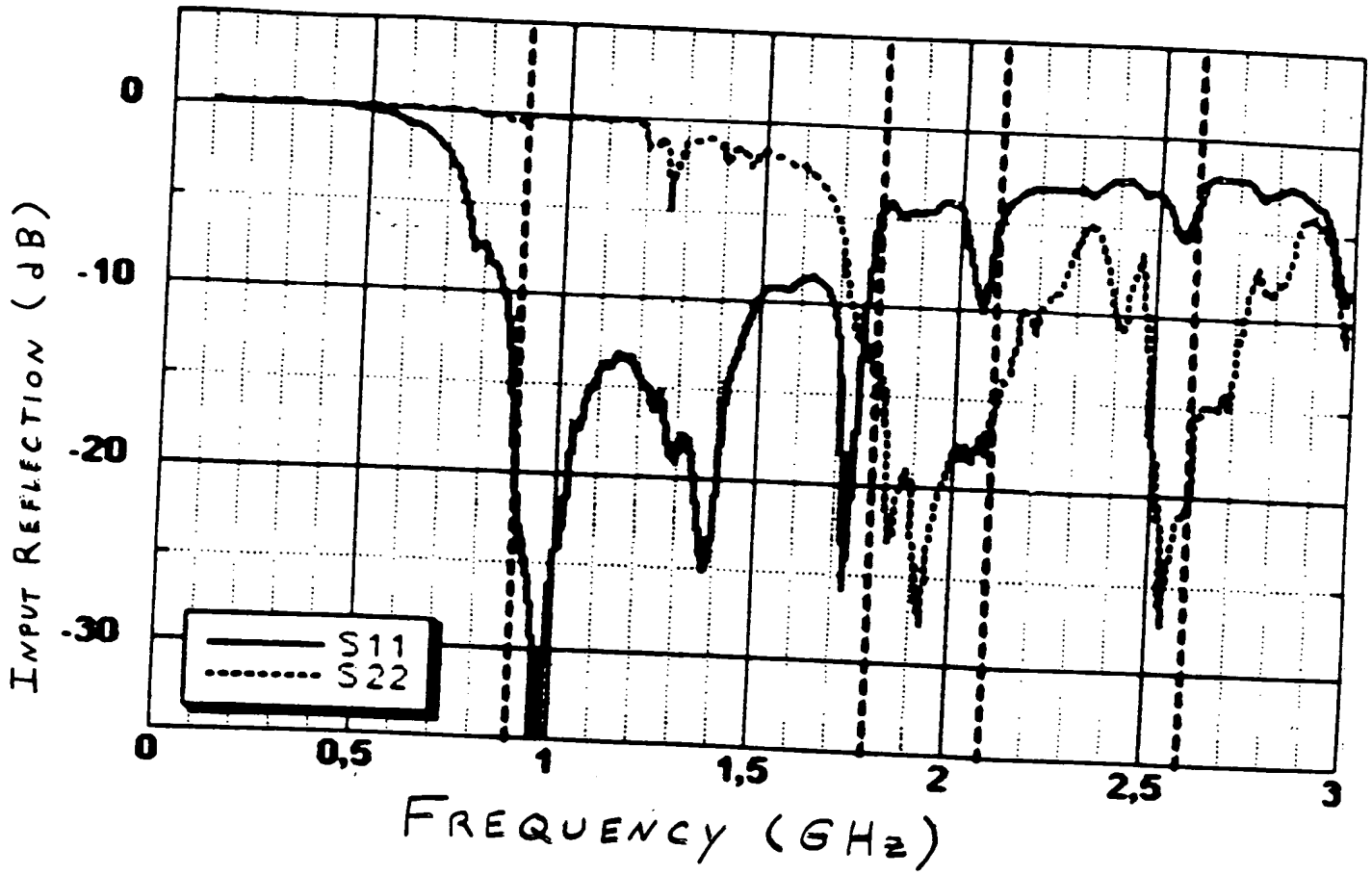
INPUT REFLECTION (dB)
0
-10
-20
-30
S11
S22
0
0,5
1
1,5
2
2,5
3
FREQUENCY (GHz)

FIG. 14

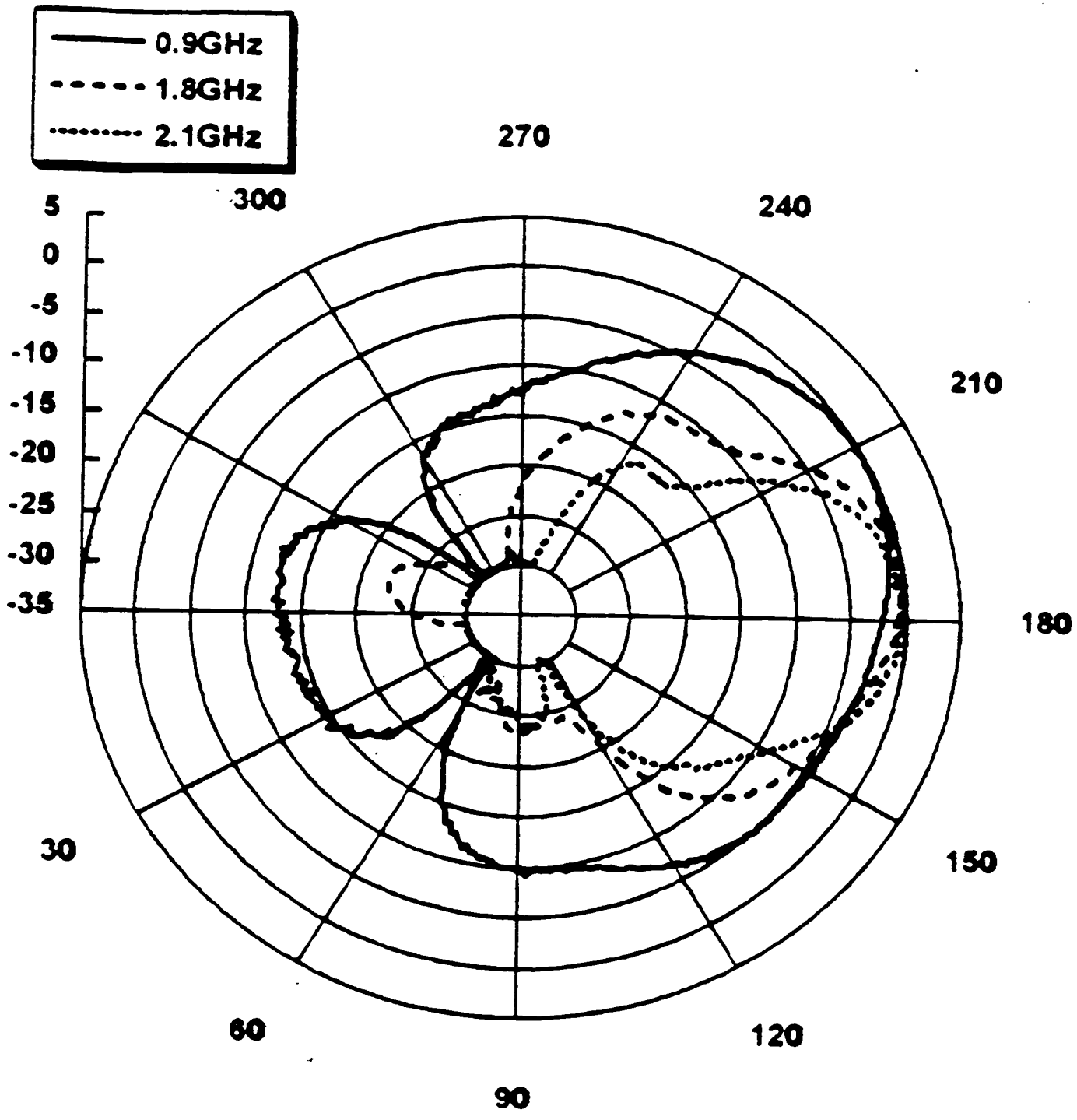
0.9GHz
1.8GHz
2.1GHz
270
300
240
5
0
-5
-10
-15
-20
-25
-30
-35
210
180
30
150
60
120
90

FIG. 15